

**PROCESS FOR PRODUCING POLYADDITION COMPOUNDS CONTAINING
URETDIONE GROUPS**

ABSTRACT OF THE DISCLOSURE

The present invention relates to a process for producing uretdione group-containing polyaddition products, which are solid below 40°C and liquid above 125°C, by reacting in a static mixer

- A) a uretdione group-containing polyisocyanates with an average isocyanate functionality of at least 2.0, and
- B) up to 70 wt.%, based on the total weight of components A) and B), of a diisocyanate other than A), with
- C) a polyol having a number average molecular weight of 62 - 2000 and an average functionality of at least 2.0, and
- D) up to 40 wt.%, based on the total weight of components C) and D), of a monofunctional isocyanate-reactive compound,

at an equivalent ratio of isocyanate groups to isocyanates-reactive groups of 1.8:1 to 0.6:1.